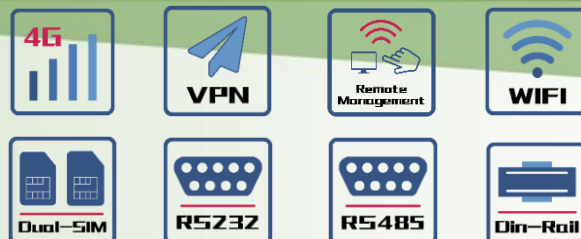




Industrial 4G Router

YF360D



Introduction

YF360D is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering, etc. Software-defined, multi-carrier networking, dual SIM models, 802.11n and global 2.5G/3G/HSPA+/LTE options make it easy to get connected. The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart manufacturing, smart home, and finance.



Industrial-grade Design

- ▶ High-performance industrial-grade CPU
- ▶ High-performance industrial-grade wireless communication module
- ▶ Support low-consumption mode, scheduled power-on/power-off mode (Optional)
- ▶ Metal casing, IP30 protection level, suitable for most industrial control applications.
- ▶ Wide range power input (DC 5~36V)



Stability & Reliability

- ▶ SIM/UIM card slot with built-in 15KV ESD
- ▶ Ethernet interface with built-in 15KV ESD
- ▶ RS232/RS485 with built-in 15KV ESD
- ▶ Multiple protection mechanism to ensure system stability, always keeping online
- ▶ Auto recovery mechanism, including online detect and auto redial
- ▶ Support hardware and software WDT



Standard & Convenience

- ▶ Standard RS232 (or RS485/RS422), ethernet and WIFI interface, can be connected to the serial device, ethernet devices and WIFI devices
- ▶ Standard wired WAN interface (support standard PPPOE protocol), Can be connected to ADSL devices directly
- ▶ Intelligent data terminal, automatically enter transmission status after power-on
- ▶ Powerful central management software for easy device management (optional)
- ▶ Easy to use and flexible, has multiple working modes
- ▶ Convenient system configuration and maintenance interface (including local and remote WEB or CLI access)
- ▶ DIN-Rail mounting, wall mounting or desktop



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High Performance

- ▶ Support 3G/4G and wired WAN dual link backup (Optional)
- ▶ Multiple WAN connection methods, include Static IP/DHCP/PPPOE/DHCP-4G
- ▶ Support Load Balancer and Load Shunt (Only for dual sim dual module version)
- ▶ Support APN/VPDN
- ▶ Support NTP, RTC embedded.
- ▶ Support multiple DDNS provider service
- ▶ Support multiple online trigger ways,including SMS, ring and data. Support link disconnection when timeout
- ▶ Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, etc.
- ▶ Support upgrade software from the local and remote maintenance.
- ▶ Support various network protocols including TCP/IP, UDP, FTP (optional), HTTP, etc
- ▶ Support SPI firewall, access control, URL filtering, etc.
- ▶ WIFI 802.11b/g/n. Support AP, client, Adhoc, Repeater, Repeater Bridge mode.
- ▶ Support VPN Client/Server (PPTP/L2TP/OPENVPN/IPSEC/GRE)
- ▶ Support DHCP server and client, firewall, NAT, DMZ host, URL block, QOS, traffic, statistics, real time link speed statistics etc.
- ▶ Schedule Reboot, Schedule Online and Offline, etc.
- ▶ Support GPS function (Optional)

Product Specification

Cellular Specification	
Items	Contents
Standard and Band	LTE FDD: B1/B3/B5/B7/B8/B20/B28 B1/B2/B3/B4/B5/B7/B8/B28 (Optional), B2/B4/B5/B12/B13/B17/B66/B71 (Optional) LTE TDD: B38/B39/B40/B41 HSPA+/HSUPA/HSDPA/WCDMA/UMTS 2100/1900/900/850MHz EV-DO: BC0 CDMA 1x: BC0 EDGE/GPRS/GSM 850/900/1800/1900MHz
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76 Mbps HSPA+: Downstream rate 21Mbps, uplink rate 5.76 Mbps UMTS: 384Kbps
Transmit Power	< 23dBm
Sensitivity	< -93.3dBm

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WIFI Specification	
Items	Contents
Standard and Band	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum) IEEE802.11n: 144Mbps (Maximum)
Security	Support WEP, WPA, WPA2 encrypt methods, optional WPS function
Transmit Power	15 ± 2dBm
Sensitivity	< -72dBm @ 54Mbps
Hardware System	
Items	Contents
CPU	Industrial-grade CPU
Flash	16MB(Extendable to 64MB)
DDR2	128MB
Interfaces	
Items	Contents
WAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
LAN Interface	4 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
Serial	1 x RS232/RS485 serial interface with built-in 15KV ESD Data bits:5, 6, 7, 8 bits Stop bits:1, 1.5 (optional), 2 bits Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional) Serial Port Rate: 2400~115200bits/s
LED Indicators	"Power", "System", "Online-1", "Online-2", " Local Network ", "WAN", "WIFI", "Signal Strength"
Antenna Interface	Cellular: 2 * Standard SMA female antenna interface, characteristic impedance: 50 Ω WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω
SIM/UIM Slot	2 * Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD
Power Interface	Standard 3-PIN power jack, reverse-voltage and over-voltage protection
Reset Button	Can reset router's configuration to default factory setting by this button

Industrial 4G Router YF360D Series



Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

Power	
Items	Contents
Input Voltage	DC 12V/1.5A
Accepted Range	DC 5~36V
Power Consumption	
Work Mode	Consumption
Standby	290 ~ 340mA@12VDC
Communicating	335 ~ 572mA@12VDC
Schedule Shutdown	2.57~4.2mA@12VDC
Physical Properties	
Items	Contents
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications.
Dimensions	206x135x28 mm (excluding antennas and mountings)
Weight	790g
Others	
Items	Contents
Operating Temperature	-35~+75℃
Storage Temperature	-40~+85℃
Relative Humidity	95% (non-condensing)

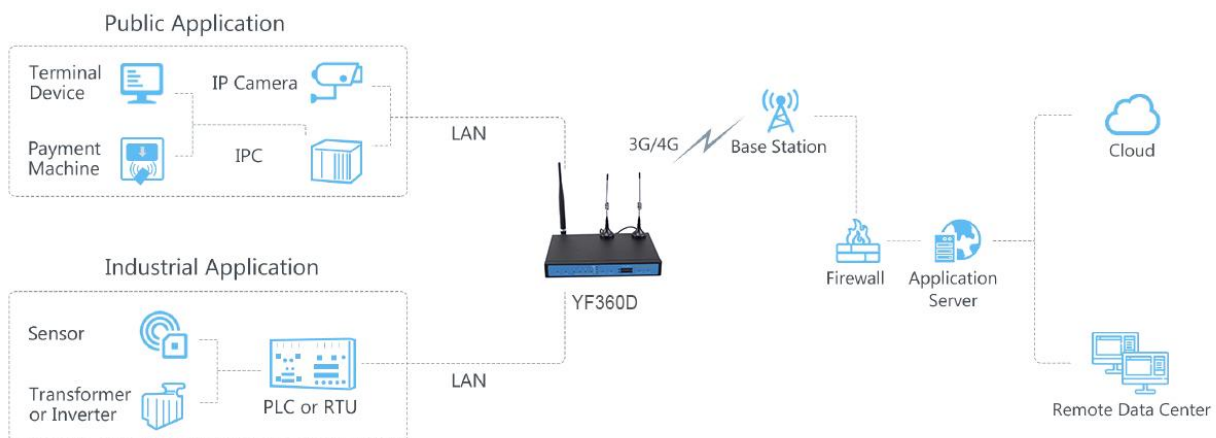
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GPS(Optional)

Items	Contents
GPS Module	Industrial GPS module (Optional Beidou module)
Receiver Type	50 channels GPSL1 (1575.42MHz) C/A code Support WAAS and EGNOS, MSAS, GAGAN
Maximum Update Rate	4Hz
Positioning Accuracy	Positioning: 2.5m CPE SBAS: 2.0m CPE
Sensitivity	Tracking: -160 dBm Re-capture: -160 dBm Cold start: -146 dBm

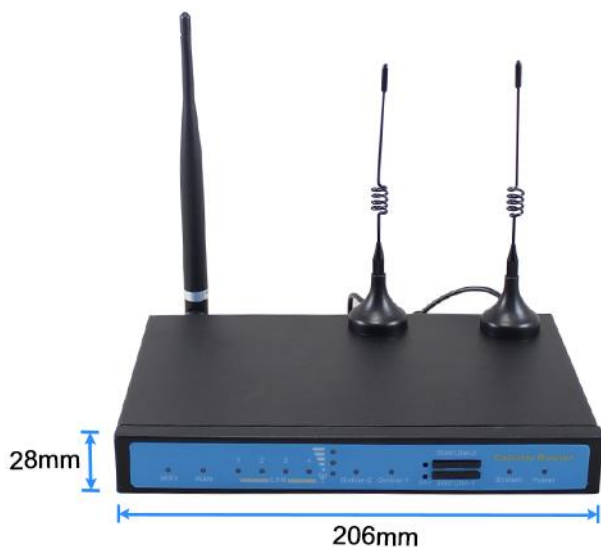
Topology



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Dimension



Order Information

Models	Description	WAN	LAN	Cellular Antennas	WIFI Antenna	SIM/UIM	Built-in Module(s)	GPS
YF360D-L	Dual SIM LTE Router	1	4	2	1	2	1	Optional
YF360D-LL	Dual SIM Dual Module LTE Router	1	4	2	1	2	2	Optional